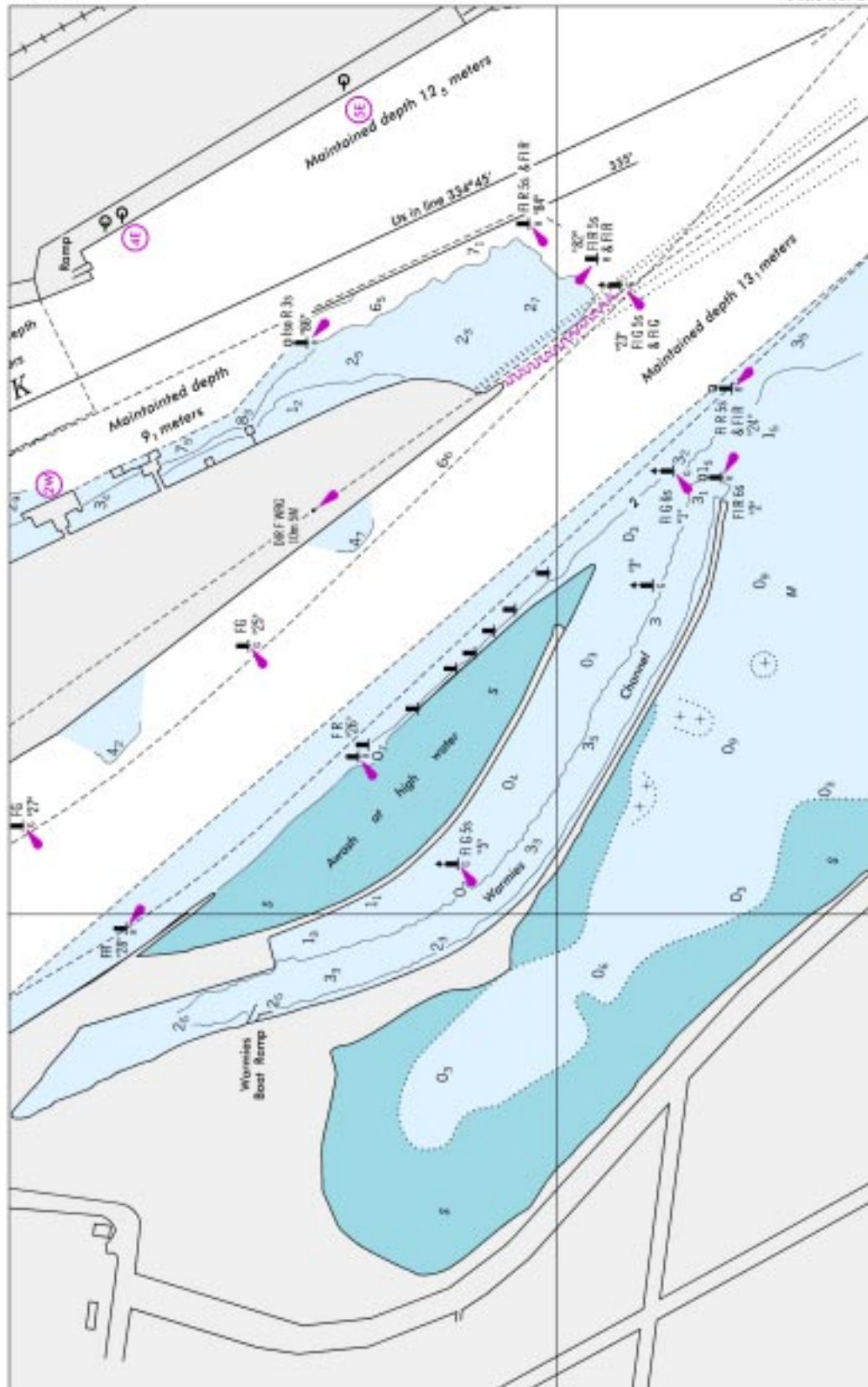


Chart 75175

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## SECTION I

NM 36/01

Chart 18521

NM 36/01

COLUMBIA RIVER CHANNEL DEPTHS ENTRANCE TO MILLER SANDS RANGE TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2001								
* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
ENTRANCE RANGE	57	56	52	41	5-01	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	47	51	49	44	5-01	2640	2.2	48
LOWER DESDEMONA SHOAL	45	45	37	30	5-99; 5-01	600	3.4	40
UPPER DESDEMONA SHOAL	40	44	46	45	5-01	600	3.7	40
TANSY POINT TURN AND RANGE	40	41	41	39	5-01	600	4.7	40
ASTORIA RANGE	41	41	39	38	5-01	600	2.7	40
TONGUE POINT CHANNEL	39	42	41	42	5-01	600	2.2	40
HARRINGTON POINT RANGE	38	40	40	39	5-01	600	2.6	40
MILLER SANDS RANGE	38	41	42	40	5-01	600	2.2	40
* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 18523

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COLUMBIA RIVER CHANNEL DEPTHS MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	38	41	42	40	5 - 01	600	2.2	40
PILLAR ROCK LOWER RANGE	38	39	40	40	4 - 01	600	3.0	40
PILLAR ROCK UPPER RANGE	34	43	41	39	4 - 01	600	1.9	40
WELCH ISLAND REACH	41	45	41	40	4 - 01	600	3.2	40
SKAMOKAWA CHANNEL	34	41	40	40	4 - 01	600	3.3	40
STEAMBOAT REACH	49	44	42	42	4 - 01	600	1.4	40
PUGET ISLAND RANGE AND TURN	37	40	40	40	3, 4 - 01	600	3.5	40
WAUNA RANGE	38	41	43	41	3, 4 - 01	600	2.2	40
DRISCOLL RANGE	40	41	41	42	4 - 01	600	1.7	40
WESTPORT TURN AND RANGE	37	41	41	41	4 - 01	600	2.0	40
WESTPORT CHANNEL	39	41	41	36	4 - 01	600	2.4	40
EUREKA LOWER CHANNEL	46	45	45	44	4 - 01	600	2.1	40
EUREKA UPPER CHANNEL	40	44	43	44	4, 6 - 01	600	0.8	40
OAK POINT CHANNEL	47	47	46	43	6 - 01	600	2.4	40
GULL I TURN AND CHANNEL	45	42	43	40	6 - 01	600	2.2	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 18622

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HUMBOLDT BAY AND HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	40.0	44.8	45.7	45.8A	5-01	2100-750	1.0	48
ENTRANCE CHANNEL	38.9B	46.4	47.1	45.8	5-01	750	0.8	48
NORTH BAY CHANNEL	35.6C	37.5	35.4	33.4D	3,5-01	400-500	3.0	38
EUREKA CHANNEL								
OUTER REACH	30.8	31.5	29.6	26.3	5-01	400	0.4	38
INNER REACH	20.0E	20.0F	21.5G	20.2H	5-01	400	1.1	26
SAMOA CHANNEL	38.2	38.1	38.2	36.6	3-01	400	1.3	38
TURNING BASIN	37.8	38.1	38.1	29.4	3-01	400-1000	0.3	38
FIELDS LANDING CHANNEL	24.9	27.7	26.3	22.1	5-01	300	1.9	26
TURNING BASIN	13.8	18.1	28.5	25.8	5-01	300-800	0.1	26
<p>A. SHOALING TO 40.4 FEET IN THE OUTSIDE 50 FEET OF QUARTER.</p> <p>B. SHOALING TO 30.5 FEET IN THE OUTSIDE 100 FEET OF QUARTER.</p> <p>C. SHOALING TO 29.6 FEET AT 40°45'37.2"/124°13'13.3".</p> <p>D. SHOALING TO 27.5 FEET AT 40°45'33.2"/124°13'08.9" AND TO 28.7 FEET FROM 40°46'18.9"/124°12'17.6" TO 40°46'21.7"/124°12'11.7".</p> <p>E. SHOALING TO 5.4 FEET FROM 40°48'24.2"/124°10'13.0" TO THE FIRST PIER. FROM WEST TO EAST, 11.4 FEET BETWEEN THE 1ST AND 2ND PIER, 10.4 FEET BETWEEN THE 2ND AND 3RD PIER, 9.6 FEET BETWEEN THE 3RD AND 4TH PIER, 9.0 FEET BETWEEN THE 4TH AND 5TH PIER, 8.3 FEET BETWEEN THE 5TH AND 6TH PIER, AND 7.3 FEET BETWEEN THE 6TH AND LAST PIER. SHOALING TO 6.2 FEET FROM THE LAST PIER TO THE END OF THE CHANNEL.</p> <p>F. SHOALING TO 8.1 FEET FROM 40°48'23.4"/124°10'13.8" TO 40°48'27.4"/124°09'32.6", THENCE 6.3 FEET TO END OF CHANNEL IN THE OUTSIDE HALF OF QUARTER. SHOALING TO 11.2 FEET FROM 40°48'23.0"/124°10'13.7" TO 40°48'25.7"/124°09'38.2", THENCE 8.0 FEET TO THE END OF THE CHANNEL IN THE INSIDE HALF OF QUARTER.</p> <p>G. SHOALING TO 12.4 FEET IN THE INSIDE HALF OF QUARTER AND SHOALING TO 13.3 FEET IN THE OUTSIDE HALF OF QUARTER, FROM 40°48'22.6"/124°10'10.3" TO THE END OF THE CHANNEL.</p> <p>H. SHOALING TO 12.4 FEET IN THE INSIDE HALF OF QUARTER, FROM 40°48'21.6"/124°10'12.4" TO THE END OF THE CHANNEL. SHOALING TO 9.1 FEET IN THE OUTSIDE HALF OF QUARTER, FROM 40°48'19.3"/124°10'22.0" TO THE END OF CHANNEL, EXCEPT FOR SHOAL TO BARE FROM 40°48'22.0"/124°10'05.2" TO 40°48'22.8"/124°09'52.5" AND SHOALING TO 4.7 FEET AT 40°48'25.4"/124°09'30.0".</p> <p>NOTE-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION</p>								

Chart 18652 (Page E)

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SUISUN BAY AND SAN JOAQUIN RIVER							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	42.9	44.7	47.9	4-01	300	0.8	35
BULLS HEAD CHANNEL	36.2	36.0	34.9	4-01	300-350	1.2	35
EAST BULLS HEAD CHANNEL	32.8	33.6	32.8	4-01	350	1.1	35
PT. EDITH CROSSING RANGE	35.6	34.8	28.4	4-01	350	1.1	35
PRESTON PT. REACH	35.5	34.9	25.7	4-01	350	0.9	35
ROE ISLAND CHANNEL	30.9	33.2	32.3	4-01	350	1.1	35
PORT CHICAGO REACH	36.8	37.1	36.3	4-01	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	34.7	36.4	34.9	4-01	350	1.29	35
EAST REACH	34.2	36.5	35.3	4-01	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.8	33.3	35.4	1-01	400	1.3	35
EAST REACH	29.6	34.6	32.2	1-01	400	1.7	35
SAN JOAQUIN RIVER							
ANTIOCH REACH	32.2	33.4	30.4	4-00	400	3.3	35
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

## SECTION I

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Chart 18656

NM 36/01

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	42.9	44.7	47.9	4-01	300	0.8	35
BULLS HEAD CHANNEL	36.2	36.0	34.9	4-01	300-350	1.2	35
EAST BULLS HEAD CHANNEL	32.8	33.6	32.8	4-01	350	1.1	35
PT. EDITH CROSSING RANGE	35.6	34.8	28.4	4-01	350	1.1	35
PRESTON PT. REACH	35.5	34.9	25.7	4-01	350	0.9	35
ROE ISLAND CHANNEL	30.9	33.2	32.3	4-01	350	1.1	35
PORT CHICAGO REACH	36.8	37.1	36.3	4-01	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	34.7	36.4	34.9	4-01	350	1.29	35
EAST REACH	34.2	36.5	35.3	4-01	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.8	33.3	35.4	1-01	400	1.3	35
EAST REACH	29.6	34.6	32.2	1-01	400	1.7	35
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18657

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SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	42.9	44.7	47.9	4-01	300	0.8	35
BULLS HEAD CHANNEL	36.2	36.0	34.9	4-01	300-350	1.2	35
EAST BULLS HEAD CHANNEL	32.8	33.6	32.8	4-01	350	1.1	35
PT. EDITH CROSSING RANGE	35.6	34.8	28.4	4-01	350	1.1	35
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 18658

NM 36/01

SUISUN BAY							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
EAST BULLS HEAD CHANNEL	32.8	33.6	32.8	4-01	350	1.1	35
PT. EDITH CROSSING RANGE	35.6	34.8	28.4	4-01	350	1.1	35
PRESTON PT. REACH	35.5	34.9	25.7	4-01	350	0.9	35
ROE ISLAND CHANNEL	30.9	33.2	32.3	4-01	350	1.1	35
PORT CHICAGO REACH	36.8	37.1	36.3	4-01	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	34.7	36.4	34.9	4-01	350	1.29	35
EAST REACH	34.2	36.5	35.3	4-01	350	1.09	35
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							